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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/783,185	02/14/2001	Yoichiro Igarashi	FUJO 18.314	2123

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EXAMINER
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ISMAIL, SHAWKI SAIF

ART UNIT	PAPER NUMBER
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2155

DATE MAILED: 07/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/783,185

Applicant(s)

IGARASHI ET AL.

Examiner

Shawki S. Ismail

Art Unit

2155

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 03 May 2005.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-15 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-15 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 14 February 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)  | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>5-3-2005</u> | 6) <input type="checkbox"/> Other: _____  |

### **RESPONSE TO AMENDMENT**

1. This communication is responsive to the amendment filed on May 3, 2005. Claims 1-2, 4-8, and 11-15 have been amended. Claims 1-15 are pending

The references in IDS form 1449 have been considered.

### **Priority**

2. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

### **New Grounds of Rejection**

3. Applicants' amendment and arguments with respect to claims 1-15 filed on May 3, 2005 have been fully considered but they are deemed to be moot in view of the new grounds of rejection.

### **Claim Rejections - 35 USC §102**

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 1-5, 8-10 are rejected under 35 U.S.C. 102(e) as being anticipated by  
**Leung.**

Leung teaches the invention explicitly as claimed including a system and method for registering mobile devices with a home agent and updating the device registry and updates the registry table to reflect roaming of the node from a first HA to a second HA (see abstract).

6. As to claim 1, Leung teaches a mobile communications service providing system in which location registration request information is transmitted from a mobile node to a home agent via a foreign agent and a server system, and information in reply to the location registration request information is returned from the home agent to the mobile node via the server system and the foreign agent, so that a location of the mobile node is registered to the home agent and the foreign agent, and a mobile communications service is provided based on the registration, wherein:

the server system comprising:

an extracting unit extracting a service profile corresponding to the mobile node from a database for managing the first service profile which includes subscriber information of each user,

a service managing unit editing the first service profile extracted by said extracting unit into a second service profile having a format which includes control information applied to a packet that the mobile node communicates using a communication path established after completing of the location registration (see col. 6 lines 1-23 and col. 13 lines 53-col. 14 lines 41, node registers with a second agent where the MAC address of the second agent is used for subsequent communication with the mobile device), and

a distributing unit distributing the second service profile to the home agent and the foreign agent (col. 2, lines 31-56);

the home agent and the foreign agent comprising:

a controlling unit determining transfer destination of a packet according to the distributed information of the second service profile (see col. 13 lines 53-col. 14 lines 41, the device is registered with the second agent and the packet are routed to the MAC address of the second agent), and

the home agent and the foreign agent provide a service by using said controlling unit according to the service profile distributed from the server system (col. 2, lines 31-56).

7. As to claim 2, Leung teaches the system according to claim 1, wherein

the server system does not distribute a second service profile to the home agent and the foreign agent, if the mobile node does not request a value-added service, and the home agent and the foreign agent provide a fundamental service according to information that the home agent and the foreign agent themselves generate (col. 2, lines 31-56).

8. As to claim 3, Leung teaches the system according to claim 1, wherein:

an address range available for a predetermined service is specified beforehand; a service profile including information representing the address range which is specified beforehand is set in the home agent and the foreign agent as a condition for extracting a corresponding packet from among received packets; and the server system assigns

an address within the address range to the mobile node that requests the predetermined service (col. 12, lines 9-55).

9. As to claim 4, Leung teaches the system according to claim 1, wherein:

the server system includes a home server device which has a right to access the database in order to extract the first service profile for the mobile node, and a foreign server device which does not have such an access right; and

the home server device distributes the service second profile to the home agent and the foreign server device, and the foreign server device forwards the second service profile to the foreign agent (col. 11, lines 24-39).

10. As to claim 5, Leung teaches the system according to claim 1, wherein:

the server system includes a home server device which has a right to access the database in order to extract the first service profile for the mobile node, and a foreign server device which does not have such an access right; and

the home server device distributes the second service profile to the foreign server device, and the foreign server device forwards the second service profile to the home agent and the foreign agent

11. As to claim 6, Leung teaches the system according to claim 1, wherein:

the server system includes a home server device which has a right to access the database in order to extract the first service profile for the mobile node, and a foreign server device which does not have such an access right;

the mobile node notifies the home agent of location registration request information via a second foreign agent when moving from a communication area of a first foreign agent to a communication area of the second foreign agent;

the home agent updates information for routing a packet so that a packet addressed to the mobile node is transferred to the second foreign agent; and

the foreign server device distributes the second service profile to the second foreign agent

12. As to claim 7, Leung teaches the system according to claim 1, wherein:

the server system includes a home server device which has a right to access the database in order to extract the first service profile for the mobile node, and first and second foreign server devices which do not have such an access right;

the mobile node notifies the home agent of location registration request information via a second foreign agent, the second foreign server device, and the home server device when moving from a communication area of a first foreign agent managed by the first foreign server device to a communication area of the second foreign agent managed by the second foreign server device;

the home agent updates information for routing a packet so that a packet addressed to the mobile node is transferred to the second foreign agent; and

the home server device distributes the second service profile to the second foreign server device, which then forwards the second service profile to the second foreign agent.

13. As to claim 8, Leung teaches the system according to claim 1, wherein:

the server system includes a home server device which has a right to access the database in order to extract a first service profile for the mobile node, and first and second foreign server devices which do not have such an access right;

the mobile node notifies the home agent of location registration request information via a second foreign agent, the second foreign server device, the home server device, and the first foreign server device when moving from a communication area of a first foreign agent managed by the first foreign server device to a communication area of the second foreign agent managed by the second foreign server device;

the home agent updates information for routing a packet so that a packet addressed to the mobile node is transferred to the second foreign agent; and

the home server device distributes the service profile to the second foreign server device, which then forwards the service profile to the second foreign agent.

14. As to claim 9, Leung teaches the system according to claim 1, wherein:

upon receipt of the packet addressed to the mobile node from a correspondent node, the home agent distributes to the correspondent node a service profile for extracting a packet in which the mobile node is set as a destination; and

the correspondent node generates information for transmitting to the foreign agent a packet which is extracted according to the distributed service profile (col. 2, lines 57-65 and col. 4, lines 23-39).

15. As to claim 10, Leung teaches the system according to claim 1, wherein



when providing a service for transferring to an arbitrary mobile node among a plurality of mobile nodes a packet with a virtual address assigned to the plurality of mobile nodes as a destination:

an address proxy server receiving the packet with the virtual address is arranged;  
and

the server system distributes to said address proxy server a service profile for extracting the packet with the virtual address is assigned and transferring the extracted packet to the particular mobile node among the plurality of mobile nodes, and also distributes to a foreign agent a service profile for transferring to the particular mobile node a packet addressed to the foreign agent which accommodates the particular mobile node (col. 3, lines 31-67).

16. As to claim 11, it contains similar limitations as claim 1; therefore, it is rejected under the same rationale.

17. As to claim 12, it contains similar limitations as claim 1; therefore, it is rejected under the same rationale.

18. As to claim 13, it contains similar limitations as claim 1; therefore, it is rejected under the same rationale.

19. As to claim 14, it contains similar limitations as claim 1; therefore, it is rejected under the same rationale.

20. As to claim 15, Leung teaches an agent device as a home agent or a foreign agent for use in a mobile communications service providing system in which location registration request information is transmitted from a mobile node to the home agent via

the foreign agent and a server system, and information in reply to the location registration request information is returned from the home agent to the mobile node via the server system and the foreign agent, so that a location of the mobile node is registered to the home agent and the foreign agent, and a mobile communications service is provided based on the registration, said agent comprising:

a service-independent unit determining a processing method for a received packet according to header information of the received packet (col. 12, lines 9-45);

an individual service controlling unit using said service-independent unit according to a service profile edited into a format which includes control information applied to a packet that the mobile node communicates using a communication path established after completing of the local registration; and

a packet controlling unit processing a packet according to a processing result of use of said service-independent unit,

said agent thereby determining a transfer destination of the packet according to the service profile and controlling the transfer of the packet.

### **Response to Arguments**

21. Applicant's arguments with respect to claim 1-15 have been considered but are moot in view of the new ground(s) of rejection.

### **Conclusion**

22. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

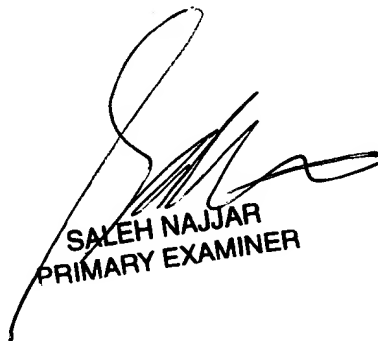
### **Contact Information**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shawki S. Ismail whose telephone number is 571-272-3985. The examiner can normally be reached on M-F 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Saleh Najjar can be reached on 571-272-4006. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Shawki Ismail  
Patent Examiner  
July 5, 2005



SALEH NAJJAR  
PRIMARY EXAMINER